8

ratio.

## What is claimed is

	Wildt	5 Ciaillieu is.
1		
2	A dez	A method comprising:
3	81	receiving a video data stream comprising a plurality of portions;
4		performing a scaling operation on the video data stream to produce
5	a plurality of	scaled portions wherein the scaling operation comprises a scaling
6	ratio; and	
7		varying a density of scaled portions stored in the memory wherein
8	the density is	related to the scaling ratio.
1	2.	The method of claim 1, further comprising:
2		accessing a scaled portion from the memory;
3		retrieving a data sample from the scaled portion; and
4		using the data sample in a second scaling operation.
1	3.	The method of claim 1, further comprising:
2		dividing the memory into a plurality of lines;
3		identifying a line; and
4		storing a number of scaled portions in the line wherein the number
5	is related to t	the scaled ratio.
1	4.	A system comprising
2		a memory comprising\a number of bytes;
3		a scaler for performing a scaling operation, the scaling operation
4	identifiable l	by a scaling ratio, wherein the scaler receives a data stream
5	comprising a	plurality of portions and produces a plurality of scaled portions; and
6		a memory controller coupled to the memory for storing an amount
7	of scaled por	tions in the memory, wherein the amount corresponds to the scaling

1	5. \	The system of claim 4, wherein the data stream is a video data
2	stream.	
1	<b>'</b>	
2	6.	The system of claim 5, wherein the video data stream comprises a
3	plurality of fi	ranges and each frame comprises a predetermined number of bytes.
1	7.	The system of claim 6, wherein the number of bytes in the memory
2	is smaller tha	an the predetermined number of bytes.
1	8.	The system of claim 4, wherein the scaling operation is a horizontal
2	scaling opera	ation.
1	9.	The system of claim 4, further comprising:
2		a second scaler for performing a second scaling operation,
3	identifiable b	by a second scaling ratio.
1	10.	The system of claim 9, wherein the second scaling ratio is identical
2	to the first se	caling ratio.
1	11.	The system of claim 9, wherein the second scaling operation is a
2	vertical scali	ng operation.
1	12.	The system of claim 9, further comprising:
2		a scaling control unit\coupled to the second scaler, wherein the
3	second scale	er further comprises a $\backslash$ finite impulse response filter including a

4	plurality of coefficients and the scaling control unit changes the amount of
5	coefficients in the filter in relation to the scaling ratio.
1	13. The system of claim 12, wherein the scaling control unit further
7	comprises a look-up table including coefficient values for changing the amount of
3	coefficients.
1	14.\ The system of claim 4, further comprising a first-in-first-out
2	memory.
1	15. The system of claim 4, wherein the memory is an on-chip memory.
1	16. An article comprising a medium storing instructions that enable a
2	processor-based system to:
3	receive a video data stream comprising a plurality of portions;
4	perform a scaling operation on the video data stream to produce a
5	scaled video data stream, wherein the scaling operation comprises a scaling
6	ratio; and
7	vary a density of the scaled video data stream stored in the
8	memory wherein the density is related to the scaling ratio.
1	17. The article of claim 16, further storing instructions that enable a
2	processor-based system to
3	access a scaled portion from the memory;
4	retrieve a data sample from the scaled portion; and

